2SB679

SILICON PNP TRIPLE DIFFUSED TYPE
(DARLINGTON POWER)

INDUSTRIAL APPLICATIONS

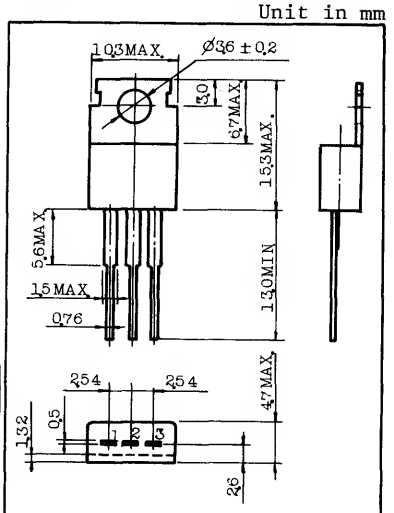
LOW FREQUENCY MEDIUM POWER AMPLIFIER AND MEDIUM SPEED SWITCHING APPLICATIONS.

PULSE MOTOR DRIVE, RELAY DRIVE AND HAMMER DRIVE APPLICATIONS.

FEATURES :

- High DC Current Gain : $h_{FE(2)}$=1000(Min.) (V_{CE}=-2V, I_C=-1A)
- Low Saturation Voltage : $V_{CE(sat)}$=-1.5V(Max.)(I_C=-1A)
- Complementary to 2SD689.

Unit in mm



1. BASE
2. COLLECTOR(HEAT SINK)
3. EMITTER

JEDEC	TO-220AB
EIAJ	SC-46
TOSHIBA	2-10A1A

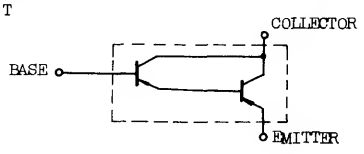
Mounting kit No.AC75

Weight : 1.9g

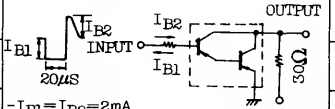
MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-100	V
Collector-Emitter Voltage	V_{CEO}	-100	V
Emitter-Base Voltage	V_{EBO}	-10	V
Collector Current	I_C	-1.5	A
Emitter Current	I_E	1.5	A
Collector Power Dissipation (Tc = 25°C)	P_C	10	W
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55∿150	°C

EQUIVALENT CIRCUIT



ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		I_{CBO}	V_{CB}=-100V, I_E=0	-	-	-10	μA
Emitter Cut-off Current		I_{EBO}	V_{EB}=-10V, I_C=0	-	-	-10	μA
Breakdown Voltage	Collector-Emitter	$V_{(BR)CEO}$	I_C=-10mA, I_B=0	-100	-	-	V
	Emitter-Base	$V_{(BR)EBO}$	I_E=-5mA, I_C=0	-10	-	-	
DC Current Gain		$h_{FE(1)}$	V_{CE}=-2V, I_C=-0.1A	2000	-	-	
		$h_{FE(2)}$	V_{CE}=-2V, I_C=-1A	1000	-	-	
Saturation Voltage	Collector-Emitter	$V_{CE(sat)}$	I_C=-1A, I_B=-2mA	-	-	-1.5	V
	Base-Emitter	$V_{BE(sat)}$	I_C=-1A, I_B=-2mA	-	-	-2.5	
Switching Time	Turn-on Time	t_{on}		-	0.3	-	μs
	Storage Time	t_{stg}		-	2.0	-	
	Fall Time	t_f		-	0.7	-	